

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/550, 951
Source: TFWJP
Date Processed by STIC: 07/27/2006

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/550,951

DATE: 07/27/2006

TIME: 12:05:14

Input Set : A:\SAWA3005 Sequence Listing.ST25.txt
 Output Set: N:\CRF4\07272006\J550951.raw

3 <110> APPLICANT: Sawadaishi, Kazuyuki
 5 <120> TITLE OF INVENTION: Recombinant Antibody Recognizing Dioxin and Gene Encoding
 Said
 6 Antibody
 8 <130> FILE REFERENCE: SAWA3005/ESS
 10 <140> CURRENT APPLICATION NUMBER: 10/550,951
 11 <141> CURRENT FILING DATE: 2005-09-28
 13 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/004355
 14 <151> PRIOR FILING DATE: 2004-03-26
 16 <150> PRIOR APPLICATION NUMBER: JP 2003-091663
 17 <151> PRIOR FILING DATE: 2003-03-28
 19 <160> NUMBER OF SEQ ID NOS: 67
 21 <170> SOFTWARE: PatentIn version 3.3
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 342
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Unknown
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: DNA encoding polypeptide of H-chain variable region of
 monoclonal
 30 antibody Dx 3860
 33 <220> FEATURE:
 34 <221> NAME/KEY: exon
 35 <222> LOCATION: (1)..(342)
 37 <400> SEQUENCE: 1
 38 gaa gtg aag ctg gtg gag tct ggg gga ggc tta gtg aag cct gga ggg 48
 39 Glu Val Lys Leu Val Glu Ser Gly Gly Leu Val Lys Pro Gly Gly
 40 1 5 10 15
 42 tcc ctg aaa ctc tcc tgt gca gcc tct gga ttc act ttc agt tcc tat 96
 43 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 44 20 25 30
 46 gcc atg tct tgg gtt cgc cag act cca gag aag agg ctg gag tgg gtc 144
 47 Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
 48 35 40 45
 50 gca tcc ttt agt aat ggt ggt atc acc tac tat cca gac agt gtg aag 192
 51 Ala Ser Phe Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
 52 50 55 60
 54 ggc cga ttc acc atc tcc aga gat aat gcc agg aac atc ctg tac ctg 240
 55 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
 56 65 70 75 80
 58 caa atg acc agt ctg agg tct gag gac acg gcc att tat tac tgt gca 288
 59 Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
 60 85 90 95
 62 aga ggc tat ggt cct gct tac tgg ggc caa ggg act ctg gtc act gtc 336

(Copy 2)

63 Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val

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64	100	105	110	
66	tct gca			342
67	Ser Ala			
71	<210> SEQ ID NO: 2			
72	<211> LENGTH: 330			
73	<212> TYPE: DNA			
74	<213> ORGANISM: Unknown			
76	<220> FEATURE:			
77	<223> OTHER INFORMATION: DNA encoding polypeptide of L-chain variable region of monoclonal			
78	antibody Dx 3860			
81	<220> FEATURE:			
82	<221> NAME/KEY: exon			
83	<222> LOCATION: (1)..(330)			
85	<400> SEQUENCE: 2			
86	cag gct gtt gtg act cag gaa tct gca ctc acc aca tca cct ggt gaa			48
87	Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu			
88	1 5 10 15			
90	aca gtc aca ctc act tgt cgc tca agt act ggg gct gtt aca act ctt			96
91	Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Leu			
92	20 25 30			
94	aac tat gcc aac tgg gtc caa gaa aaa cca gat cat tta ttc act ggt			144
95	Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly			
96	35 40 45			
98	cta ata ggt aat acc aac aac cga gct cca ggt gtt cct gcc aga ttc			192
99	Leu Ile Gly Asn Thr Asn Arg Ala Pro Gly Val Pro Ala Arg Phe			
100	50 55 60			
102	tca ggc tcc ctg att gga gac aag gct gcc ctc acc atc aca ggg gca			240
103	Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala			
104	65 70 75 80			
106	cag act gag gat gag gca ata tat ttc tgt gct cta tgg tac agc aac			288
107	Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn			
108	85 90 95			
110	cat ttg gtg ttc ggt gga gga acc aaa ctg act gtc cta ggc			330
111	His Leu Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly			
112	100 105 110			
115	<210> SEQ ID NO: 3			
116	<211> LENGTH: 354			
117	<212> TYPE: DNA			
118	<213> ORGANISM: Unknown			
120	<220> FEATURE:			
121	<223> OTHER INFORMATION: DNA encoding polypeptide of H-chain variable region of monoclonal			
122	antibody Dx 3150			
125	<220> FEATURE:			
126	<221> NAME/KEY: exon			
127	<222> LOCATION: (1)..(354)			
129	<400> SEQUENCE: 3			
130	gat gta cag ctt cag gag tca gga cct ggc ctc gtg aaa cct tct cag			48
131	Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln			
132	1 5 10 15			

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134	tct	ctg	tct	ctc	acc	tgt	tct	gtc	act	ggc	tac	tcc	atc	acc	agt	ggc	96
135	Ser	Leu	Ser	Leu	Thr	Cys	Ser	Val	Thr	Gly	Tyr	Ser	Ile	Thr	Ser	Gly	
136																30	
138	20								25								
139	ttt	tac	tgg	aac	tgg	atc	cg	cag	ttt	cca	gga	aac	aaa	ctg	gaa	tgg	144
Phe	Tyr	Trp	Asn	Trp	Ile	Arg	Gln	Phe	Pro	Gly	Asn	Lys	Leu	Glu	Trp		
140																45	
142	35								40								
143	atg	ggc	tac	ata	agc	tac	gac	ggt	tac	aat	aat	tac	aac	cca	ttt	ctc	192
144	Met	Gly	Tyr	Ile	Ser	Tyr	Asp	Gly	Tyr	Asn	Asn	Tyr	Asn	Pro	Phe	Leu	
145																60	
146	50								55								
147	aaa	aat	cga	gtg	tcc	atc	act	cgt	gac	aca	tct	gag	aac	cag	ttt	ttc	240
Lys	Asn	Arg	Val	Ser	Ile	Thr	Arg	Asp	Thr	Ser	Glu	Asn	Gln	Phe	Phe		
148									70			75				80	
150	65																
151	ctg	aag	ttg	cat	tct	gtg	act	act	gag	gac	aca	gct	aca	tat	tac	tgt	288
Leu	Lys	Leu	His	Ser	Val	Thr	Thr	Glu	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys		
152									85			90				95	
154	gta	agt	tac	ggt	agt	cgg	agg	gga	gtt	acc	tac	tgg	ggc	caa	ggc	acc	336
155	Val	Ser	Tyr	Gly	Ser	Arg	Arg	Gly	Val	Thr	Tyr	Trp	Gly	Gln	Gly	Thr	
156									100			105				110	
158	act	ctc	aca	gtc	tcc	tca											354
159	Thr	Leu	Thr	Val	Ser	Ser											
160							115										
163	<210>	SEQ	ID	NO:	4												
164	<211>	LENGTH:	330														
165	<212>	TYPE:	DNA														
166	<213>	ORGANISM:	Unknown														
168	<220>	FEATURE:															
169	<223>	OTHER INFORMATION:	DNA encoding polypeptide of L-chain variable region of monoclonal														
170		antibody	Dx	3150													
173	<220>	FEATURE:															
174	<221>	NAME/KEY:	exon														
175	<222>	LOCATION:	(1)..(330)														
177	<400>	SEQUENCE:	4														
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179	Gln	Ala	Val	Val	Thr	Gln	Glu	Ser	Ala	Leu	Thr	Thr	Ser	Pro	Gly	Glu	
180	1					5			10							15	
182	aca	gtc	aca	ctc	act	tgt	cgc	tca	agt	act	ggg	gct	gtt	aca	act	agt	96
183	Thr	Val	Thr	Leu	Thr	Cys	Arg	Ser	Ser	Thr	Gly	Ala	Val	Thr	Thr	Ser	
184									20			25				30	
186	aac	tat	gcc	aac	tgg	gtc	caa	gaa	aaa	cca	gat	cat	tta	ttc	act	ggt	144
187	Asn	Tyr	Ala	Asn	Trp	Val	Gln	Glu	Lys	Pro	Asp	His	Leu	Phe	Thr	Gly	
188							35			40						45	
190	cta	ata	gtt	aat	acc	aac	cga	gct	cca	ggt	gtt	cct	gcc	aga	ttc		192
191	Leu	Ile	Gly	Asn	Thr	Asn	Arg	Ala	Pro	Gly	Val	Pro	Ala	Arg	Phe		
192							50			55						60	
194	tct	ggc	tcc	ctg	att	gga	gac	aag	gct	gcc	ctc	acc	atc	aca	ggg	gca	240
195	Ser	Gly	Ser	Leu	Ile	Gly	Asp	Lys	Ala	Ala	Leu	Thr	Ile	Thr	Gly	Ala	
196	65								70			75				80	
198	cag	act	gag	gat	gag	gct	ata	tat	ttc	tgt	gct	ctt	tgg	tac	aac	acc	288
199	Gln	Thr	Glu	Asp	Glu	Ala	Ile	Tyr	Phe	Cys	Ala	Leu	Trp	Tyr	Asn	Thr	

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200 85 90 95
202 cat ttg gtg ttc ggt gga gga acc aga ctg act gtc cta ggc 330
203 His Leu Val Phe Gly Gly Thr Arg Leu Thr Val Leu Gly
204 100 105 110
207 <210> SEQ ID NO: 5
208 <211> LENGTH: 114
209 <212> TYPE: PRT
210 <213> ORGANISM: Unknown
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Polypeptide of H-chain variable region of monoclonal antibody Dx
214 3860
216 <400> SEQUENCE: 5
218 Glu Val Lys Leu Val Glu Ser Gly Gly Leu Val Lys Pro Gly Gly
219 1 5 10 15
222 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
223 20 25 30
226 Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
227 35 40 45
230 Ala Ser Phe Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
231 50 55 60
234 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
235 65 70 75 80
238 Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
239 85 90 95
242 Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
243 100 105 110
246 Ser Ala
250 <210> SEQ ID NO: 6
251 <211> LENGTH: 110
252 <212> TYPE: PRT
253 <213> ORGANISM: Unknown
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Polypeptide of L-chain variable region of monoclonal antibody Dx
257 3860
259 <400> SEQUENCE: 6
261 Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu
262 1 5 10 15
265 Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Leu
266 20 25 30
269 Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
270 35 40 45
273 Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
274 50 55 60
277 Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
278 65 70 75 80
281 Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
282 85 90 95
285 His Leu Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly
286 100 105 110

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Input Set : A:\SAWA3005 Sequence Listing.ST25.txt
Output Set: N:\CRF4\07272006\J550951.raw

289 <210> SEQ ID NO: 7
290 <211> LENGTH: 118
291 <212> TYPE: PRT
292 <213> ORGANISM: Unknown
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Polypeptide of H-chain variable region of monoclonal antibody Dx
296 3150
298 <400> SEQUENCE: 7
300 Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
301 1 5 10 15
304 Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser Gly
305 20 25 30
308 Phe Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
309 35 40 45
312 Met Gly Tyr Ile Ser Tyr Asp Gly Tyr Asn Asn Tyr Asn Pro Phe Leu
313 50 55 60
316 Lys Asn Arg Val Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe Phe
317 65 70 75 80
320 Leu Lys Leu His Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
321 85 90 95
324 Val Ser Tyr Gly Ser Arg Arg Gly Val Thr Tyr Trp Gly Gln Gly Thr
325 100 105 110
328 Thr Leu Thr Val Ser Ser
329 115
332 <210> SEQ ID NO: 8
333 <211> LENGTH: 110
334 <212> TYPE: PRT
335 <213> ORGANISM: Unknown
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Polypeptide of L-chain variable region of monoclonal antibody Dx
339 3150
341 <400> SEQUENCE: 8
343 Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu
344 1 5 10 15
347 Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
348 20 25 30
351 Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
352 35 40 45
355 Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
356 50 55 60
359 Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
360 65 70 75 80
363 Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Asn Thr
364 85 90 95
367 His Leu Val Phe Gly Gly Thr Arg Leu Thr Val Leu Gly
368 100 105 110
371 <210> SEQ ID NO: 9
372 <211> LENGTH: 8
373 <212> TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/27/2006
PATENT APPLICATION: US/10/550,951 TIME: 12:05:15

Input Set : A:\SAWA3005_Sequence_Listing.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; N Pos. 30
Seq#:25; N Pos. 24

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42
Seq#:43,44,45,46,47,48,49,50,51,52,53,54,55

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/550,951

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Input Set : A:\SAWA3005 Sequence Listing.ST25.txt

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L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0

L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0